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March 26, 1987

Mr. Thomas Walker Chicago Dock and Canal Trust 401 North Michigan Avenue Suite 3145 Chicago, Illinois 60611

RE: Summary Report of the Ogden Slip Infill Monitoring and Testing at the Cityfront Center Project in Chicago, Illinois -- STS Project No. 24418-F

Dear Mr. Walker:

This letter and its attachments provide a summary of the part-time observation and testing services provided during the filling operations at the west end of Ogden Slip for the Cityfront Center project. Copies of our technician's daily field reports are included with this letter, together with a location diagram and summary table of the laboratory test results.

Filling Procedures and Scope of Work

The filling operations, which were to have been completed by early January, 1987, were delayed due to the unavailability of fill materials from the anticipated borrow sources. Initially, following installation of the sheet pile cutoff wall, several feet of the CA-1 type crushed stone were placed at the bottom of the west end of Ogden Slip. These materials were placed prior to dewatering the slip and additional thicknesses were provided around the perimeter to help support the sheeting during dewatering. Water samples were obtained during the dewatering and were tested for various chemical components and suspended solids to determine that contamination of the receiving waters of the slip was not occurring. The results of these tests and our evaluation of the results were described in our letter dated January 23, 1987.

Following dewatering, the construction of a ramp along the south side of the slip began from a point about midway between the cutoff wall and Columbus Drive. Fill materials were dumped over the side of the sheeting to construct the ramp downwards heading west.

Chicago Dock and Canal Trust STS Project No. 24418-F March 26, 1987 Page 2

Additional fill materials were pushed over the edge of the sheeting and spread by bulldozers working off the ramp to provide a bridging layer of fill above the CA-1 and soft silts below.

Representatives of STS were present at the site on a part-time basis to observe the fill materials being delivered to the site and to monitor the progress of the filling operations. Unsuitable fill materials such as rebar, organic matter, boulders, building rubble, or other debris (in particular, concrete or rubble exceeding the 8 inch maximum size criteria) were identified and the contractor removed these from the fill stock piles. Some loads of the wet silt and soft clay materials being delivered from caisson construction sites were difficult to place and compact. Where possible, these materials were spread and allowed to dry prior to rolling them in place and adding the next lift. On several occasions, the wet fill could not be sampled using the shelby tubes and at the time of our subsequent visits, the area had been filled over.

Shelby tube samples were obtained at random locations following compaction of the fill. The shelby tubes were returned to our laboratory where the samples were extruded and moisture content and density tests were performed. The approximate locations at which the tube samples were obtained are indicated on the attached sketch. The laboratory test results are included on the Shelby Tube Test Data Summary sheets attached.

Prior to the start of filling operations, two samples of fill from on-site stockpiles had been obtained and Modified Proctor laboratory compaction tests were completed on each. Maximum densities of 118.8 to 124 pcf at optimum moisture contents of 11.5% and 12%, respectively, were determined for the clay and sandy topsoil materials tested. Copies of the laboratory test results are attached.

The laboratory densities ranged from 94.1 pcf to 117.4 pcf and moisture contents ranged from 13.4% to 25.8%. The average density was approximately 105.8 pcf. Using an average density of 121.4 pcf for a combined sample based upon the Modified Proctor tests, this corresponds to approximately 87% compaction.

Conclusions and Comments

Overall, based upon the field observations by our personnel and the results of the shelby tube sampling, the fill materials placed west of the cutoff wall in the former Ogden Slip are free of any significant amounts of building rubble or boulders over 8 inches in size and most soft or unsuitable materials. The fill has also been compacted to an average of more than 85% of the specified density and therefore is in conformance with the project specifications. However, it should be recognized that there is a possibility that zones of less well compacted fill are present within the slip area and that some occasional larger

Chicago Dock and Canal Trust STS Project No. 24418-F March 26, 1987 Page 3

pieces of concrete or unsuitable debris are buried within the fill due to the nature of the filling operations and the part-time observation services provided.

The temporary construction road at East Park Drive was to consist of a 4 ft thick layer of the Type 1 (CA-1) fill with at least 6 inches of CA-6 topping. Placement of these materials was not specifically observed by our field personnel, but typically, the granular interlock between the angular pieces of stone which results after placement using conventional earthmoving equipment provides sufficient support. Compaction of a CA-6 type material can be obtained using vibratory equipment and these materials can be tested using non-destructive nuclear density testing equipment. However, for the intended use of this road during construction and given the 6 inch thickness anticipated, it would serve no useful purpose to perform additional tests on the CA-6 roadway surface. Since the construction roadway across the former slip is supported upon somewhat variable fill materials, settlement of the roadway section should be anticipated. This settlement will occur over time by compression within the fill as well as compression of the underlying clay under the weight of the fill. The planned bituminous binder and maintenance courses should be adequate to maintain the roadway surface during the construction period.

If there are any questions with regard to the information contained in this summary report, please call us.

Respectfully,

STS CONSULTANTS, LTD.

Stephen A. Bucher, P.E. Project Engineer

Clyde N. Baker, Jr., P.E. Senior Principal Engineer

SAG/th

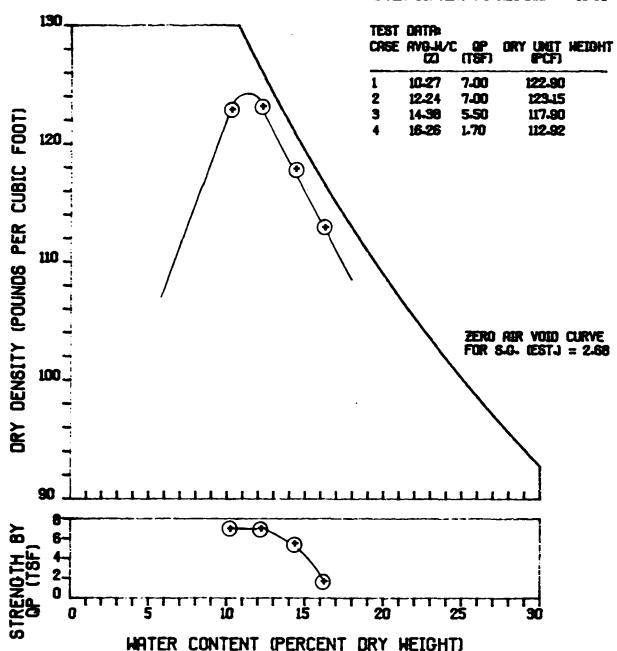
encl.

cc: Mr. Len Koroski Lohan Associates 225 North Michigan Avenue Chicago, Illinois 60601

MOISTURE-DENSITY RELATION OF SOILS MODIFIED PROCTOR ASTH D 1557-78 DATE: 12/18/86 METHOD A

STS JOB NO.: 24418-F
PROJECT: 0000EN SLIPICITY FRONT CENTER
LOCATION: CHICAGO. IL.
SPIPPLE NO.: 1
SOIL TYPE: SILTY CLAY, LITTLE SAND. TR.
ORRIVEL. SHALE-- ORRY (CL)

HRIGHUM DRY DENSITY(PCF): 124-00
OPTIHUM HATER CONTENTION: 11-50
HATER CONTENT AS REC'002): 18-80

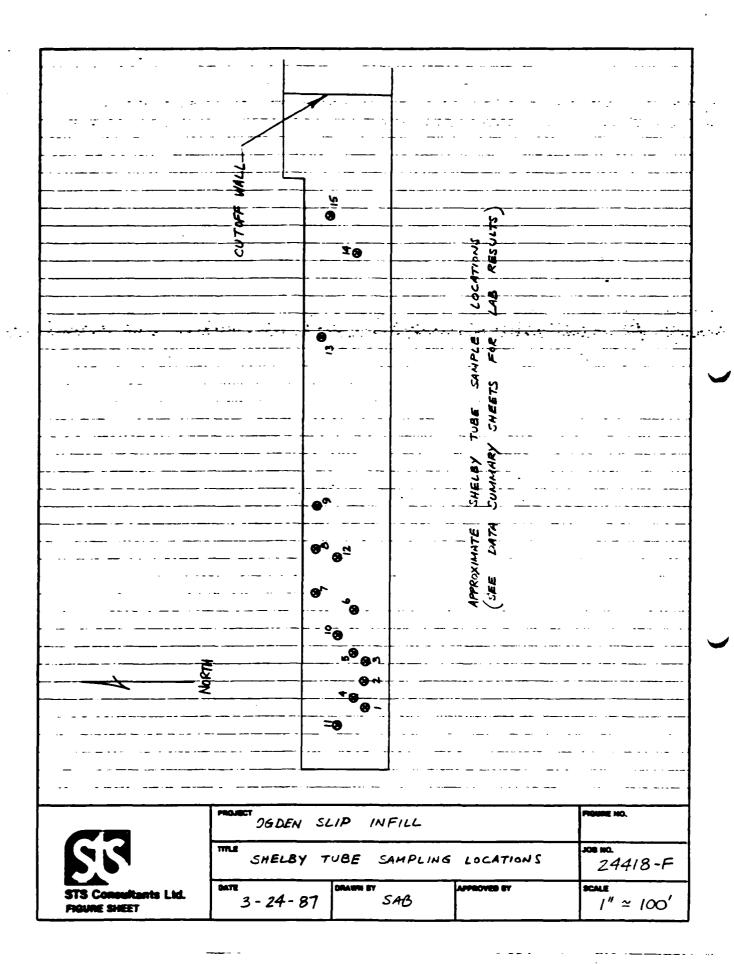




STS JOB NO.: 24418-F
PROJECT: CITY FRONT CENTER
LOCATION: CHICAGO.IL.
SAMPLE NO.: 2
SOIL TYPE: SANDY TOPSOIL. LITTLE SILT.
TR. GRAVEL--- DK. BROWN (OL)

MAXIMUM DRY DENSITY(PCF): 118-80
OPTIMUM MATER CONTENT(X): 12-00
MATER CONTENT AS REC'D(X): 16-80

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Northbrook Phone: 272-4520



STS Consultants Ltd.

Northbrook, Illinois 60062

STS Job No. 24418 - F

SHELBY TUBE TEST DATA SUMMARY

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Cont	ractor		PASCHEN					
TEST LOCATION	SAMPLE DATE (1987)	* DEPTH (FT)	SOIL DESCRIPTION	unconf Stng = TSF	WATER CONTENT % DRY WI	DRY DENSITY PSF	PERCENT COMPACT	REMARKS
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2					23.9	/0/.8		
3				(22.7	98.0		
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4	1-28	6.0	GRAY CLAY, TRACE TO LITTLE TOPSOIL, GRAVEL & SAND		22.2	-		
5			,		22.5	94.1		
6					22.2	96.0		
7	2-5	4.0	GRAY SILTY CLAY, TRACE SAND & GRAVEL		25.8	104.2		
7A			CLAY & TOPSOIL, LITTLE SAN	<u> </u>	23.2			
8			CLAY FILL , LITTLE TOPSOIL SAND , TRACE GRAVEL & BRICE	d T	19.4	114.8		
9			H 11 11 11		23.4	<u></u>		
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STS Consultants Ltd. **1 Pringson Rose Monthorook, Illinois 60062

STS Job No. 24418-F

SHELBY TUBE TEST DATA SUMMARY

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2 WHITE OFFICE • YELLOW TIME CARD • WHITE FIELD



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2 WHITE OFFICE • YELLOW TIME CARD • WHITE FIELD



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Equipment Arrive Job Rental Depart Jo Tolls \$ Total Hou on Job Mileage Lab Time. Travel Time	9:45 0 9:45 1:00
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Pending Final Laboratory Test Results.	Site Sketch: Indicate North

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STS Construction Services Group Field Report		JAN 3		<u> </u>
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STS Construction Services Ground Field Report	up FEB 2 1987		Si
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		Project No. Z	4418-F
Project City PROM CE	NTER	Day/Date	v 7-2-87
Location 060BV SLIP		- ·	LEAR 35'5
Contractor PASCHEN		Client	
Rental	rrive Job 9'00 ^A 10:15		4 HOUR MINIMUM
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2 WHITE OFFICE • YELLOW TIME CARD • WHITE FIELD

Materials Engineering Division Field Report

Project No. 2448-F

Project OGGEN Slip		Day/Date <u>F±B</u> 3, 1987
Location Chicago, Illia	va i \$	Weather/Temp. 40
Contractor PASCHEN		Client
Equipment	Arrive Job 12:80	
Rental	Depart Job // 05	4 HOUR MINIMUM
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Parking \$ 40	on Job	HOURS 3.30
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Position	STS	Consultants, Ltd.
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Field Report		FEB 5 1987		
		Anu'd	Project No	24418-F
Project OGDEN SLIP			_ Day/Date	THUR 25-8
Location COLUMBUS	TLLINOIS	ST.	•	CLEARE 30-40
Contractor PASCHEN!			_ Client	
Equipment Rental	Arrive Job	11:00	_	4 HOUR MINIMUM
Tolls \$	Depart Job	12:30	_ TOTAL CHARGEABL	
Parking \$	Total Hours on Job	1.50	HOURS	3.50
Mileage	Lab Time	.50	_	
	Travel Time	_1.5	_	
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☐ Fleid Test Data is Estimated Pending Final Laboratory Test Results.	Site	TUGE	S EVER STAFTIME X 4	LINAP (WOTE)

Tolls \$ To	epert Job 12:80 epert Job 1:30 otal Hours 1:50	Project No	4418-F 6-87 35°
	ravel Time	est Data. Locations, Elevations a	and Depths are Estimated.
Stock pito to day of OUT. Fill Will BE PI Section Too Soft to No Foreign MANERIAL MASSIER	acco for	WATEN is I Steek pile M holly Jube.	- changed all pumped to be with landed into
*☐Field Test Data is Estimated Pending Final Laboratory Test Results.	High Wellton	42. S.	soft.
Position Company 2 WHITE OFFICE • YELLOW TIME CARD • WHITE FIE	Dolo	N Washington STS Constants, Ltd	

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STS Construction Services Gre Field Report	oup 5 Z	•	ES
- Total Hopott	 		
Project GCEN SISP Location CHICKA: Illinsus		Project No. 244/8 Day/Date FEB 9, 1	
Contractor		Cilent	·
Rental	Arrive Job /: C C Depart Job 3: 0 0 Total Hours 2. 0 0 on Job Lab Time Travel Time /.50	TOTAL CHARGEABLE HOURS	MINIMUM
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1) 10,77, 100 cm	Dacjiro And		-5'
	Chis out	Test Arus. No receivery -8	
□ Field Test Data is Estimated Pending Final Laboratory Test Results.	Site Sketch: Indicate N	lorth	=
leld Representative	\sim		

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STS Construction Services Group FEB 1 7 1987 SI Field Report Project No. Client_ Arrive Job 200 **4 HOUR MINIMUM** Depart Job / 2:00 CHARGEABLE Total Hours HOURS on Job Travel Time _ 040 ☐ Field Test Data is Estimated Site Sketch: Indicate North Pending Final Laboratory Test Results.

2 WHITE OFFICE . YELLOW TIME CARD . WHITE FIELD

Ans'd.....

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cation Columbus Il	insis / Chicago,	H	_ Weather/Temp. 🚅	lear o Mild
ntractor <u>Paschen</u>			_ Client	
Equipment Rental	Arrive Job	9:15	_ ,	4 HOUR MINIMUM
Tolls\$	Depart Job	10:00	_ TOTAL CHARGEABLE	- I ISON MINIMOM
Parking \$	Total Hours	,75	HOURS	2.75
Mileage 50	Lab Time	,5		
	Travel Time	1.5	_	
<i>:</i>				
mmary of Technical and/pr Engineer	ing Services Performed, Inclu	ding Field Teet Data. L	ocations, Elevations a	ind Depths are Estima
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Id Representative A A A A A A A A A A A A A A A A A A A	2/20/87	Michael 1	Mannely STS Consultants, Ltd	

JP. . .

STS Construction Services Group	KECEIAFR	<i>C</i> 7
Field Report	MAR 2 1987	50
•	An'd	
	Project No. 2441	8-F
	Day/Date 2-23;	07(-1)
ropes Ogley Sly	Day/Date 2-23;	-81 (Mary)
ocation folighus & Illinois Chicago Il	· Weather/Temp.	r & Mill
contractor Tanakka	Client	
Equipment Arrive Job	16	HOUR MINIMUM
Tolla S	CHARGEABLE	
Periding \$ for Job	,25 Hours	2.75
Affleege Lab Time		
Travel Time	<u>.5 </u>	
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☐ Field Teet Data is Estimated Pending Final Laboratory Test Results. Site Skel	tch: Indicate North	
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OMPANY By/	STS Consultants. Ltd.	
WHITE OFFICE • YELLOW TIME CARD • WHITE FIELD	, 313 Consultants, 130.	